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School of Engineering and Applied Science
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AN APPLICATION OF THE SRS/RG IN DETERMINING ENLISTED ATTRITION RATES IN THE USMC: PROGRAM MANUAL

by

Joseph M. D'Amalio

TECHNICAL MEMORANDUM

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The purpose of this paper is to provide a	
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system which computes average monthly non-EAS	S attrition rates by command peciality (MOS) and grade
system which computes average monthly non-EAS location (MCC CODE), military occupational splevel (SKILL); and /or by MCC CODE, military (OCC FIELD) and SKILL. This system uses the	peciality (MOS) and grade occupational specialty group

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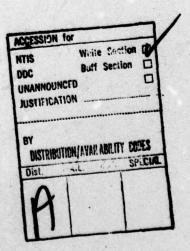
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The purpose of this paper is to provide a programmer's manual for a system which computes average monthly non-EAS attrition rates by command location (MCC CODE), military occupational speciality (MOS) and grade level (SKILL); and/or by MCC CODE, military occupational specialty group (OCC FIELD) and SKILL. This system uses the SRS/RG history file as input.



THE GEORGE WASHINGTON UNIVERSITY School of Engineering and Applied Science Institute for Management Science and Engineering Program in Logistics

AN APPLICATION OF THE SRS/RG IN DETERMINING ENLISTED ATTRITION RATES IN THE USMC: PROGRAM MANUAL

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1. Introduction

The Statistical Retrieval System and Rate Generator (SRS/RG) is an automated data system that has been designed and programmed by the Program in Logistics staff of The George Washington University. This system, installed on the computer at the Headquarters, Marine Corps, is documented in [1], [2], [3] and [4]. The heart of the SRS/RG is a history file of variable length records with each record containing background information on one Marine.

The purpose of this paper is to provide a programmer's manual for a system which computes average monthly non-EAS attrition rates by command location (MCC CODE), military occupational specialty (MOS) and grade level (SKILL), and/or by MCC CODE, military occupational specialty group (OCC FIELD) and SKILL. This system uses the SRS/RG history file as input.

A description of the technical methodology used in the computation of the non-EAS attrition rates is found in [5].

System Description

This system consists of four steps.

- 1. Program SRSNEAS
- 2. A SORT
- 3. A SPSS program (AGGREGATE)
- 4. A MARK-IV program.

A documentation of each step along with pertinent user information follows:

Program SRSNEAS

This program takes the SRS history file, selects the proper population and, based on a given beginning reference point and an end point, outputs a fixed length record containing the following:

- The MID of the marine. This is used primarily for debugging purposes.
- 2. The SKILL level of the marine. This is a '1' for grades E1, E2 or E3; a '2' for grades E4 or E5.
- 3. The MCC-CODE for the marine. This can be in the range 00 thru 12. It represents one of 13 district groupings of Primary Monitor Command Codes (PMCC). This PMCC is the location at which the marine was stationed as of the beginning reference point. These codes and the PMCC they represent are listed in Appendix B.
- 4. The MOS-CODE for the marine. This is the military occupational specialty of the marine as of the beginning reference point. The first two bytes of this field is the OCC FIELD.
- 5. The numerator value used in the rate computation.
- 6. The denominator value used in the rate computation.
- 7. The transfer or separation date for the marine. This is used mainly for debugging purposes.

Program SRSNEAS uses the Separation Codes listed in Appendix C to determine if a marine is a non-EAS, immediate reenlistment or EAS separation.

- 1.1 <u>Input</u>. The input to program SRSNEAS is the current SRS history file.
- 1.2 Output. The output from program SRSNEAS is a file consisting of 27 byte fixed length records. This is used as input to the following SORT (step 2).
- 1.3 Source Listing. Following is a listing of the source statements for SRSNEAS.

1/20/	INPUT LISTING AUTOFLOW CHART SET - SRS N	NON-EAS ATTR.
DEDL MODULE	(LIST, CHART, PARM)	
CARD NO	CONTENTS	3
	OPTION AUXLIST=YES	
		00000000
-	IDENTIFICATION DIVISION.	00000000
	PROGRAM-ID. SRSATTRX.	00000000
	AUTHOR. 10M TEEPLES.	00000040
i.	DATE-COMPILED.	05000000
6		09000000
9	ENVIRONMENT DIVISION.	00000000
,	CONFIGURATION SECTION.	00000000
8	SOURCE-COMFUTER. IBM-360-H65.	06000000
6	OBJECT-COMPUTER. IBM-360-H65.	00000100
10	SPECIAL-NAMES.	000000110
=	CO1 IS TO-NEW-PAGE.	00000120
12	IMPUT-OUTPUT SECTION.	00000130
13	FILE-CONTROL.	00000140
2	SELECT FILE-OUT. ASSIGN TO UR-1403-S-SYSPRINT.	. 00000120
5	SELECT SRS-OUT ASSIGN TO UT-2400-S-EXTRFILE.	00000160
	EVECT	00000170
16		00000180
	DATA DIVISION.	06100000
18	FILE SECTION.	00000000
61		00000210

Qoz	INPUT LISTING	97	AUTOFLOW CHART SET - SRS	NON-EAS ATTR.	
ARD NO	i		CONTENTS	•	
20	£	FILE-OUT		00000220	100
		LAEEL RECORDS ARE	ARE OMITTED	00000230	
23		RECORDING MODE	1S F.	00000240	
23	•	FILE- OUT-REC.		00000250	
24	· · · · · · · · · · · · · · · · · · ·	03 FILLER	PIC X(133).	00000260	
\$2				.00000270	
36	£	SRS-OUT		00000280	
27		BLOCK CONTAINS	•	00000290	
28		RECORD CONTAINS 027	027	00000000	
29		LABEL	RECORDS STANDARD.	00000310	
30	0000010*			00000320	
31	000160 01	SRS-HIST-REC-X.		00000000	
32		02 FIXED-X.		00000340	
33	000130*			00000320	
34	*051000			00000360	
35	000190	03 MID.		00000370	
36	000000	OS BRANCH	PIC X.	00000380	
3.7	000210	05 SSN	PIC X(9).	00000390	
38		03 SKILL	PIC 9.	00000400	
39		03 MCC-CODE	PIC 99.	00000410	
07		03 MOS-CODE	PIC 9(4).	00000420	
4		O3 NUM	PIC 99.	00000430	
42		03 DENOM	PIC 99.	00000440	

Q	INPUT L	LISTING	9	AUTOFLOW CHART SET - SRS	NON-EAS ATTR.
. ARD NO	1			CONTENTS	
4			03 1R-DATE	PIC 9(6).	00000450
4		٠			00000460
45		WOR	WORKING-SIORAGE SECTION.	*	00000410
46		5	IN-CTR	PIC S9(6) COMP-3.	00000480
47		ö	-	PIC S99 COMP-3.	00000490
87			O1 SONS.		00000000
49			03 SDN3	PIC XXX.	00000510
90	*		03 SDN2	PIC XX.	00000250
5			7 6	PIC 599 CUMP-3.	00000230
52		5	•	PIC S99 COMP-3.	00000540
53		5	EOF	PIC X.	00000220
22		8	USE-FLAG	PIC S9.	00000260
. 55		6	OUT-CIR	PIC S9(6) COMP-3.	00000570
90		8	WORK - DATE	PIC 9(6).	00000280
57			O1 STARI-DATE	PIC 9(6).	06500000
28	\		O1 END-DATE	PIC 9(6).	00900000
. 29			01 FLGG	PIC X.	00000000
9			01 SEP-DIFF	PIC 59999.	00000620
19		6	DATE-1.		00000000
. 62			03 Y1	PIC 99.	00000640
63			03 M1	PIC 99.	0000000
2			03 01	PIC 99,	09900000
99		6	DATE-2.		0000000

/sc C	INPUT LISTING	AUTOFICE CHARL SEL . SAS NOR	אווא האוואי
CARD NO	CONTENTS		
99	03 Y2 PIC 99.		00000000
67	03 M2 PIC 99.		0000000
89	03 D2 PIC 99.		00000000
69	01 DIFF PIC S9999.		01700000
. 70	C1 PER10D PIC \$9999.		00000020
11	O1 HOLD-SON PIC X(3).		0000000
72	ES NON-EAS VALUES ARE		00000740
73	'GKA' THRU 'HNC'		000000220
74	, JKA' THRU 'JNC'		000000
75	'H20' THRU 'H67'		000000170
76	,820' THRU '899'		00000180
11	,dpp., ,Dpp.		0000000
78	SFK' SFK' SFK' SFC' SFC' SFK' SFK' SFK'		00000000
79	'VE', 'WEK', 'GEN', 'JDE', 'JD		00000810
08	JOK' 'JFB' 'JFC' 'JFF' 'JFC' 'JFP' 'JFM' 'JFN' 'JFP'	FM' 'UFN' 'UFP'	00000820
7 18	JER' JET' JEV' JNF' 'JNF' KCM' KCO'	, KCO,	000000830
82	'KDB' 'KDC' 'KDG' 'KDG' 'KDH' 'KFF' 'KFV'	'KFV'	00000840
. 83	KNL' 'LFG' 'MCK' 'MDB' 'KDH' 'MND'	, WND,	00000820
84	, JFG' 'KFS' 'YND' 'JPB'.		00000860
85	88 IM-REENL VALUES ARE		00000870
98	, KHC'.		0000000
87	01 HOLD-MCC PIC X(3).		06800000
88	88 MCC1 VALUES ARE		00600000

-6-

(/so()	INPUT LISTING					AUT	AUTOFLOW CHART	CHART	SET -	SRS	NON-EAS ATTR	S ATTR.
CARD NO	•					CONTENTS	TS.					
80			,130,	,436	.442.	.436' '442' '1CD' '091' '1C1'.	.160,	.101.			000	01600000
06		88	MCC2		VALUES ARE	ARE					0000	0000000
5			'121'	,143,	.144'	121' 143' 144' 164' 169' 100' 104'.	,169,	,100,	'104'.		0000	0000000
92		88	MCC3		VALUES ARE	ARE					0000	00000940
63			'122'	'142'	'151'	'142' '151' '160' '165' '101' '103' '10K'.	,165,	,101,	,103,	,10K'.	0000	0000000
9.4		88	MCC4		VALUES ARE	ARE					0000	09600000
65			'124'	,095,	,045	,045' '044' '145' '146' '197' '102'	'145'	,146,	,181,	,103,	000	0000000
96			,103,	'102'	1105' '167'		'168'.				000	08600000
7.6		88	MCCS		VALUES ARE	ARE					0000	06600000
86			,210,	.213,	'215' '217'	,217,	,218,	, 224,	,224, '226' '229'	,556,	000 .	00001000
66			,530,	,533,	.234	,233' '234' '237'	,240,	,251	,2511. ,254,	,526,	000	00001010
100			, 562,	,262' '263'	, 568,	,268' '271'	,272' ,274' ,275'	.274.	,275'		000	00001020
101		88	MCC6		VALUES ARE	ARE					000	00001030
102			,323,	.356,	,362,	,362, ,365,	,311, '313,	'313'	'314' '315'	,315,	000	00001040
103			,316'	,317,	,320, '323'	,323,	,326' '327'	,327	,328,		000	00001050
104		88	MCC7		VALUES ARE	ARE					000	00001000
105			,351,	,312,	,322'.						000	00001000
106		98	MCCB		VALUES ARE	ARE					000	00001000
101			'412'	'413'	'414'	1412' 1413' 1414' 1431' 1434' 1436' 1438' 1439'	,434,	,436,	438	,438,	000	06010000
108			'442'	.444	,446,	1442' 1444' 1446' 1451' 1452' 1454' 1455'	'452'	.484	,455'	,429,	000	00001100
109			,460,	'461'	'462'	460' '461' '462' '463' '465' '466' '467'	,465,	,466,	467	,468,	000	00001110
110			,469,	.410.	.471	'470' '471' '473' '476' '478' '528'	476	.478	, 228,	,233,	000	00001120
			, 232,	.231,	, 238,	,539' '541' '582' '590'	,585,	, 290,	,293,	,909,	000	00001130

O02/1	INPUT LISTING AUTOFLOW CHART SET - 5RS	NON-EAS ATTR.
CARD NO	CONTENTS	
112	.608609.	00001140
113	88 MCC9 VALUES ARE	00001150
114	,150, ,157.	00001160
115	88 MCC10 VALUES ARE	00001170
116	'ROO' 'ROS' 'ROS' 'R10' 'R14'.	. 000001180
117	88 MCC11 VALUES ARE	00001190
118	,009, ,010, ,011, ,012, ,014,	00001200
119	,019, ,025, ,024, ,024, ,026, ,026, ,021, ,028,	00001210
120	,029, '030, '038, '040, '041, '047, '048'	00001220
121	.049' '052' '057' '058' '059' '063'.	.00001230
122	88 MCCBD VALUES ARE	00001240
123	,016, '017'.	00001250
	EJECT	00001260
124		00001270
124	-INC SRSFD	00001280
125	000010•	
126	000020* THE FOLLOWING SET OF STRUCTURES CONSTITUTE A PSEUDO FD FOR	FOR
127	000030* THE HISTORY FILE (HIST). THIS FILE IS ACCESSED FOR INPUT BY	8Y A
128	000040* CALL 'READER' INSTRUCTION AND FOR OUTPUT BY A CALL 'WRITER'	ER,
129	GOUGSO* INSTRUCTION, EACH WITH APPROPRIATE PARAMETERS.	
130	*0900CO	
131	OGGOTO* WRITER COLLECTS AND ASSEMBLES THE HISTORY RECORD AND PLACES	LACES
132	000080* IT IN AN OUTPUT BUFFER. READER LOCATES A HISTORY RECORD IN AN	IN AN

133						
	104NI *000000	T BUFFER AND DISTR	IBUTES	000090* INPUT BUFFER AND DISTRIBUTES THE SEGMENTS TO THE APPROPRIATE	ROPRIATE	
134	000100* SEGME	ODC100* SEGMENT STRUCTURES BELOW.	OM.			
135	*011000					
136	000120* THE	FIXED AREA IS	AREA NUMBER	UMBER 1.		
137	000130*					
138	000140* LENGTH IS	TH IS 132 BYTES.			~~	
139	000150*					
140	000160 01 SF	SRS-HIST-REC.				
141	000170 02	F1 XED.				
142	000180 03	03 AREA-COUNT	PIC 99	PIC 99 COMP-3 OCCURS 15 TIMES.	5.	
143	000190 03	3 MID.				
144	000200	OS BRANCH	PIC X.			
145	000210	05 SSN	PIC X(x(9).		
146	000220 03	3 NAME	PIC X(x(20).		
147	000230 03	3 INITIALS	PIC XXX.	×		
148	000240 03	3 RACE	PIC X.			
149	000250 03	3 SEX	PIC X.			
150	000260 .03	3 ETHNIC-GROUP	PIC X.			
151	000270 03	3 HOME-STATE	PIC XX.			
152	000280 03	3 HOME-COUNTY	PIC X(х(4).		
153	000290 03	3 DATE-OF-BIRTH	PIC 9(9(6) COMP-3.		
154	000000 03	3 AFADSD	PIC 9(9(6) COMP-3.		
155	000310 03	3 ACTUAL-EAS	PIC X(x(6).		

CARD NO	:				CONT	CONTENȚS				
156	000320	83	PEBD	PIC		9(6) COMP-3.				
	0000330	69	GRAD-SEP-DATE	PIC	x(6).					
	000340	03	GRAD-SEP-FLAG	PIC	×					
	0000320	03	MCC-ENLISTED		PIC XXX.					
	000360	03	DUTY-LIMIT-ENTRY PIC X.	TRY P.	.× 5					
	000370	8	CITIZENSHIP	PIC	PIC XX.					
	000380	8	MARITAL-STATUS PIC	S PIC	×					
	066000	93	NUM-DEP-ENTRY	PIC	×					
	000400	83	NUM-DEP-CURR	PIC	×.					
	000410	63	CIV-ED-ENTRY.							
166	000430		OS YEARS-ED	PIC	xx.					
	000430		OS DEGREE	PIC	×					
	000440	83	CIV-ED-CURR.							
169	000450		CS YEARS-ED	PIC	xx.					
170	000460		OS DEGREE	PIC	х.					
1	000470	EJ	EJECI							
171	C00480	83	03 PROG-ENL-FOR		PIC XX.					
172	1000490	FILLE	FILLER INSERTED FOR SEC-EST, VISION.	0R SI	EC-EST.	VISION.	SPACE	15		
173	•005000	SEING	SEING MAINTAINED HERE FOR FUTURE EXPANSION	HERE	FOR	UTURE EX	PANSION.			
	000510	8	.03 FILLER	PIC	PIC XX.					
175	000520	8	03 BILLET-MOS	PIC	X(4).					
176	000530	THE	THE HMF-SRC-FLAG IS USED TO DENOTE THOSE RECORDS THAT WERE	S USE	30 01 0	NOTE THOS	E RECORD	S THAT	VERE	
4										

CARD NO 178 000550* FLAG=0 FOR RECORDS ADDED AFTER CREATION. NOT 199 000560* RECORDS MAY NOT HAVE COMPLETE ENLISTMENT HIST 000560* RECORDS MAY NOT HAVE COMPLETE ENLISTMENT HIST 180 000570* 03 ACT-INACT-FLAG PIC X. 182 000500* THE ACT-INACT-FLAG PIC X. 184 000600* A 2 WILL BE MOVED IN EACH TIME THE E. O00600* A 2 WILL BE MOVED IN EACH TIME THE E. O00600* A 2 WILL BE MOVED IN EACH TIME THE E. O00600* A 2 WILL BE MOVED IN EACH TIME THE E. O00600* A 2 WILL BE MOVED IN EACH TIME THE E. O00600* CONCESS* CONCE	
000550* 000560* 000560* 000580 000580 000620* 000620* 000650 000650 000650 000650 000650 000650 000720* 000730 000730 000730	CONTENTS
000560* 000570 000580 000580* 000610* 000620* 000650 000650 000650 000650 0006710* 000730 000730 000730	FLAG=0 FOR RECORDS ADDED AFTER CREATION. NOTE THAT ORIGINAL
0004570 000580 000590 000600 000610 000620 000650 000650 000660 000650 000650 000720 000730 000730 000750	RECORDS MAY NOT HAVE COMPLETE ENLISTMENT HISTORY.
000580 000590 000610 000620 000630 000650 000660 000660 000660 000660 000710 000730 000730 000730	AG PIC X.
000600* 000610* 000620* 000630 00 000640 000650 000650 000660 000670* 000720* 000730 00 000730 00	FLAG PIC X.
000600* 000610* 000620* 000640 000650 000660 000660 000660 000670* 000720* 000730 000750	THE ACT-INACT-FLAG WILL BE A 1 FOR ALL ACTIVE RECORDS.
	A 2 WILL BE MOVED IN EACH TIME THE ENLISTMENT AREA
	IT WILL BE RE-SET TO 1 FOR EACH NEW
	OPENED UP.
	PIC X(4).
	FLAG PIC X.
	NUMI-RAMS-FLAG REDEFINES RAMS-NEED-FLAG PIC 9.
	LAST-CHG-DATE PIC 9(6) COMP-3.
	USED TO FORCE EVEN-BYTE ADDRESS
	MT.
	1 PIC X.
000720* LENGTH IS 000730 02 SCORES. 000740 03 AFEE 000750 05	S AREA HUMBER 2.
000730 02 SCORES. 000740 03 AFEE 000750 05	IYTES.
000740 03 AFEE 000750 05 000760 05	
000750 05	5
000000	ORM-NUMBER PIC XX.
199 000770 07 AFEES-C-C3	TES-C-CO PIC XXX.

8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	AUTOFLOW CHART SET - SRS	CONTENTS	AFEES-G-FA PIC XXX.	AFEES-G-EL PIC XXX.	AFEES-C-OF PIC XXX.	AFEES-C-GM PIC XXX.	AFEES-C-MM PIC XXX.	AFEES-C-CL PIC XXX.	AFEES-C-ST PIC XXX.	AFEES-C-GT PIC XXX.	AFEES-C-SC PIC XXX.	AFEES-C-RC PIC XXX.	AFEES-C-RES2 PIC XXX.	AFEE-MNTL-GP-SCORE PIC XX.	T-FLAG PIC X.		DEPUT-FORM-NUMBER PIC XX.		DEPOT-C-CO PIC XXX.	DEPOT-C-FA PIC XXX.	DEPOT-C-EL PIC XXX.	DEPOT-C-OF PIC XXX.	DEPOT-C-GM PIC XXX.
000950 000950 000950 000950 000950 000950 000950 000950 000950 000950 000950 000950 000950	INPUT LISTING		60	. 01	10	10	10	01	60	04	70	6	6	80		000910•		90	04	04	00	03	00

...

0,20/	INPUT LISTING AUTOFLOW CHART SET - SAS	NON-EAS ATTR.
CARD NO	CONTENTS	•
223	GO:010 07 DEPOT-C-CL PIC XXX.	
224	00:020 07 DEPOT-C-ST PIC XXX.	
225	001030 07 DEPOT-C-GT PIC XXX.	
226	00:040 07 DEPOT-C-SC PIC XXX.	
227	001050 07 DEPOT-C-RC PIC XXX.	
228	GO:CGO O7 DEPOT-C-RES2 PIC XXX.	
229	001070 05 DEPUT-GT-GCT PIC XXX.	
230	CO1080 OS DEPOI-TEST-DATE PIC X(6).	
231	001000	,
232	CO:100* ETST SCURE DELETED PER HOMC STAFF RECOMMENDATION.	•
233	001110 03 TYPING PIC XXX.	
234	001120 03 EDPT PLC XXX.	
235	QO:130 RC SCORE DELETED PER HOMC STAFF RECOMMENDATION.	
236	00:140 03 ALAT PIC XX.	
	00:150 EJEC)	
237	C01160+	
238	001170 ** THE MILITARY - EDUCATION AREA IS AREA NUMBER 3.	
239	001180	
240	CO:190* LENGTH IS 32 BYTES.	
241	001200*	
242	001210 02 MILITARY-EDUCATION OCCURS 0 TO 20 TIMES.	
243	001220 03 COURSE-CODE PIC XXX.	
244	001230 03 TO-DATE PIC X(6).	

1/20	INPUT LISTING			AUTOFLOW CHART SET - SRS NON-EAS ATTR.	
CARD NO	:			CONTENTS	
245	001240	83	FROM-DATE	PIC X(6).	
246	001250	03	FLAG	PIC X.	
247	001260	03	COURSE-GRADE	PIC XXX.	
248	001270	03 FILLER		PIC X(13).	
249	001280*				
250	001290* T	HE FILLE	R IS INCLUDED H	THE FILLER IS INCLUDED HERE TO MAINTAIN A TOTAL OF 32 BYTES.	
251	001300	OME RE-D	EFINITION OF FI	SOME RE-DEFINITION OF FIELDS IS STILL REQUIRED. (20 JAN 76).	
252	001310* TH	E ENLIST	001310+ THE ENLISTMENT AREA IS AREA NUMBER 4.	EA NUMBER 4.	
253	001320*				
254	001330* LENGTH	NGTH IS	24 BYTES.		
255	001340•				
256	001350	02 ENL	ENLISTMENT	OCCURS 1 TO 20 TIMES.	
257	001360	03	SOURCE-OF-ENTRY.		
258	001370		05 SOE-1	PIC X.	
259	001380		. 05 SOE-2	PIC X.	
260 /	001390		05 SOE-3	P1C X.	
261	001400		05 SOE-4	PIC X.	
262	001410	03	DO-ENLISTMENT	PIC 9(6) COMP-3.	
263	001420	03	LNG-ENLISTMENT PIC X.	P.C X.	
264	00:430	03	COMPONENT-CODE PIC XXX.	PIC XXX.	
265	001440	03	SEPARATION-CD	PIC X(5).	
266	001450	03	REENL-INDIC	PIC XX.	
267	001460	03	SEPARATION-DT	PIC 9(6) COMP-3.	

11/20	INPUT LISTING AUTOFLOW CHART SET - SRS NON-EAS ATTR.
CARD NO	••••
268	001479 03 SLACK-BYTE2 PIC X.
269	001480* EXTENSION IS AREA NUMBER 5.
270	001490-
27.1	001500* LENGTH IS 12 BYTES.
272	0015100
273	CO1520 O2 EXTENSION OCCURS O TO 9 TIMES.
274	001530 03 TOT-MON-EXT PIC XX.
275	001540 D3 TOT-NUMB-EXT PIC 9.
276	001550 03 DT-LATEST-EXT PIC 9(6) COMP-3.
7.7.2	001560 03 MON-LATEST-EXT PIC XX.
278	001570 03 ENL-X-REF-FLAG PIC 99.
279	001580 03 SLACK-BYTE3 PIC X.
280	001590* THE ENLISTMENT CROSS REFERENCE FIELD. ABOVE, IS THE SUBSCRIPT
281	001600* OF THE MATCHING ENLISTMENT. IT COMES FROM THE FOURTH
282	00:610* ENTRY OF THE AREA-COUNT TABLE.
283	001620*
	001630 EJEC1
264	001640*
285	001650* GRADES IS AREA NUKBER 6.
286	001660*
287	001670* LENGTH IS 8 BYTES.
268	.001680*
289	001690 02 GRADES OCCURS 1 TO 20 TIMES.

Q'02/11	INPUT LISTING		AUTOFLOW CHART SET - SRS NON-	NON-EAS ATTR.
CARD NO	•		CONTENTS	:
290	0 001100 .	03 GRADE	PIC XXX.	
291	001710	03 DATE-OF-RANK	PIC 9(6) COMP-3.	
292	001720 03 \$	SLACK-BYTE4 PIC	×	
293	00:730* UA-SHORT	00:730* UA-SHORT IS AREA NUMBER 7.		
294	001740*			
. 295	001750+ LENGTH IS 6 BYTES.	IS 6 BYTES.		
296	*001760*			
297	001770 02 L	UA-SHORT OCCURS	0 TO 30 TIMES.	
298	001780	03 DATE-OF-UA	PIC 9(6) COMP-3.	
259	00:750	03 UA-SH-FLAG	PIC X.	
300	00:800 03 \$	SLACK-BYTES PIC	×	
301	CO. 810* UA-LONG	CO'810" UA-LONG IS AREA NUMBER 8.		
302	C01820*			
303	00:830-LENGTH 1	15 10 BYTES.		
304	00:940*			
305	001850 02 (UA-LONG OCCURS	6 0 TO 30 TIMES.	
306	00:860	03 TO-UA-DATE	PIC 9(6) COMP-3.	
307	00:810	03 FROM-1JA-DATE	PIC 9(6) COMP-3.	
308	001880	03 UA-FLAG	PIC X.	
309	001890 03 \$	SL4CK-BYTE6 PIC	×	
310	001900* DESERTIC	001900* DESERTION IS AREA NUMBER 9.		
311	001910* LENGTH 1S 8 BYTES.	IS 8 BYTES.		
312	001920 02 0	DESERTION OCCURS	5 0 TO 20 TIMES.	

05/11	INPUT LISTING				AUTOF	OK CH	AUTOFLON CHART SET - SRS	NON-EAS ATTR.	
CARD NO	•			Ô	CONTENTS			•	1
313	001930	69	03 TO-DES-DATE		PIC	(9)6	COMP-3.		
314	001940	03	FROM-DES-DATE		PIC	(9)6	COMP-3.		
315	•001950•								
316	001960* TRANSFERS IS AREA NUMBER	ERS	IS AREA NUM	BER 10.					
. 317	001970* UPDATED FROM		IOM JD-STATS.						
318	•08:00								
319	CO1990* LENGTH IS	15	16 BYTES.						
320	•005000								
321	002010 02	TRAN	TRANSFERS 0	OCCURS	1 TO 60		TIMES.		
322	002020	03	FMCC		PIC	PIC XXX.			
323	002030	03	PMCC		PIC	PIC XXX.			
324	002040	03	RUC		PIC	PIC X(5).			
325	002050	03	BEGIN-DATE		PIC	(9)6	COMP-3.		
326	002060	03	STREN-CAT		PIC	×			
	002070 EJ	EJECI							
327	002080*								
328	00:090* TURBULENCE IS AREA NUMBER 11.	ENCE	IS AREA NU	MBER	:				
329	002100+ UPDATED FROM	0	NOW UP-STATS.						
330	002110*								
331	002120* LENGTH	15	38 BYTES.						
332	002130*								
333	002140 02		TURBULENCE 0	CCURS	0 10	50	OCCURS O TO 20 TIMES.		
334	002150	03	O3 PRES-MCC		PIC	PIC XXX.			

002/1	INPUT LISTING			AUTOF	LOW CH	AUTOFLOW CHART SET - SRS	NON-EAS ATTR.
CARD NO	•		Š	CONTENTS			•
335	002160	63	FORM-INCC	PIC	xxx.		
336	002170	03	INT-TRANS-DATE	PIC	(9)6	COMP-3.	
337	002180	69	00.78	PIC	6(6)	COMP-3.	
338	002190	03	D-0-ACT	PIC	(9)6	COMP-3.	
. 339	002200	03	REASON-CODE	PIC			
340	002210	03	TOUR-CONT-FAC	PIC	xx.		
341	002220	63	PCS-COST-CD	PIC	xx.		
342	002230	03	TRAINEE-FLG	PIC	XX.		
343	002240	03	03 REASON-FLAG	PIC	×		
344	002250	03	LAST-DATE-DET	PIC	(9)6	COMP-3.	
345	002260	03	GEO- LOC- CODE	PIC	XXX.		
346	002270	03	GEO-DCTB	PIC	6(6)	COMP-3.	
347	002280 03		SLACK-BYTEB PIC X.				
348	002290* MOS IS AREA NUMBER 12	IS ARE	A NUMBER 12.				
349	002300+ LENGTH 15 8 BYTES.	TH 15	B BYTES.				
350	002310 02	SOW 2	OCCURS	0 10	20 TIMES.	IMES.	
351	002320	03	PRIMARY - MOS	PIC	x(4).		
352	002330	03	MOS-DATE	PIC	6(6)	COMP-3.	
353	002340+ BONUS	1 1S A	002340* BONUS IS AREA NUMBER 13.				
354	002350+ LENGTH 15 6	TH 1S	6 BYTES.				
355	002360 02	BONUS	OCCURS	0 10 10	10 T	TIMES.	
356	002370	03	SRB-BON-TYPE	PIC	×		•
357	002380	03	ZONE	PIC	×		

CONTENTS 002390 03 BONUS-DATE PIC 9(6) COI 002410* TWO SPARE AREAS 002420 002440 02 SPARE14. 002440 03 FILLER PIC X. 002440 03 FILLER PIC X. EJECT * PROCEDURE DIVISION. * START-UP. PERFORM OPEN-ROUTINE. MOVE 770930 TO END-DATE. MOVE 51AT-DATE TO DATE.1. COMPUTE DIFF ** ((Y1 * 12) + M1) - 1. MOVE END-DATE TO DATE-2. COMPUTE PERIOD ** ((Y2 * 12) + M2) - DIFF. * HISTORY-READ.

O'02/	INPUT LISTING AUTOFLOW CHART SET - SRS NO	NON-EAS ATTR.
CARD NO	CONTENTS	•
380	IF USE-FLAG . ZERO GO TO HISTORY-READ.	00001450
381	PERFORM OUT-REC THRU OUT-REC-END.	00001460
382	GO TO HISTORY-READ.	00001470
383		00001480
. 384	LOGIC-CHECK.	00001490
365	MOVE ZERO TO USE-FLAG.	00001500
386	"THIS PARACRAPH IS TO CONTAIN LOGIC TESTS FOR SELECTING	00001510
387	* OR REJECTING EACH RECORD.	00001520
388	*A REJECTED RECORD SHOULD RETURN ZERO IN THE USE-FLAG.	00001530
389	* THE BLANK CARD SHOULD BE REPLACED WITH THE SELECTION	00001540
390	* CRITERION, SUCH AS: COHORT-DATE = 7306	00001550
391		00001560
352	MOVE DO-ENLISTMENT OF SRS-HIST-REC (1) TO WORK-DATE.	00001570
393	IF WORK-DATE > START-DATE THEN	00001580
394	GO TO HISTORY-READ.	00001590
395	IF COMPONENT-CODE OF SRS-HIST-REC (1) NOT < '1 '	00001600
396	AND < '14 ' THEN NEXT SENTENCE ELSE	00001610
397	GO TO HISTORY-9EAD.	00001620
866	IF ACT-INACT-FLAG OF FIXED = '1' THEN	00001630
368	MOVE 1 TO USE-FLAG	00001640
400	ELSE	00001650
401	MOVE AREA-COUNT (4) TO I	00001660
402	MOVE SEPARATION-DI OF SRS-HIST-REC (1) TO WORK-DATE	00001670

C/20/1	INPUT LISTING AUTOFLOW CHART SET - SRS NO	NON-EAS ATTR.
CARD NO	CONTENTS	•
403	IF WORK-DATE < START-DATE THEN GO TO HISTORY-READ	00001680
404	ELSE	00001690
405	MOVE 1 TO USE-FLAG.	00001700
406	LOGIC-CHECK-END. EXIT.	01710000
407		00001720
	EJECT	00001730
408		00001740
409	SRS-READ.	00001750
410	MOVE SPACES TO SRS-HIST-REC.	00001760
411	CALL 'READER' USING FIXED. SCORES.	00001770
412	MILITARY-EDUCATION (1).	00001780
413	ENLISTMENT (1), EXTENSION (1), GRADES (1),	00001790
414	UA-SHORT (1). UA-LONG (1). DESERTION (1).	00001800
415	TRANSFERS (1), TURBULENCE (1), MOS (1), BONUS (1), 00001810	00001810
416	SPARE14. SPARE15. EOF.	00001820
417	IF EOF = '1' PERFORM END-OF-RUN.	00001830
418	ADD 1 TO IN-CTR.	00001840
419		00001850
420	SRS-READ-END. EXIT.	00001830
421		00001870
422	OPEN-ROUTINE.	00001830
.423	OPEN OUTPUT FILE-OUT.	00001890
424	OPEN CUTPUT SRS-OUT.	000010000

000/	INPUT LISTING	AUTOFLOW CHART SET - SRS NO	NON-EAS ATTR.
CARD NO	•	CONTENTS	•
425	MOVE ZERO TO IN-CTR.		00001910
426	MOVE ZERO TO OUT-CTR.		00001920
427	•		00001930
	EJECT		00001940
428	•		00001950
429	OUT-REC.		00001960
430	MOVE ZEROS TO SRS-HIST-REC-X.	.×.	00001970
431	MOVE 'O' TO FLGG.		00001380
432	MOVE MID OF FIXED TO MID OF FIXED-X.	F FIXED-X.	06610000
433	MOVE AREA-COUNT (06) TO I.		. 00002000
434	16.		00002010
435	IF I . O THEN GO TO HISTORY-READ.	Y-READ.	00002020
436	MOVE DATE-OF-RANK OF SRS-HIST-REC (I) TO WORK-DATE.	IST-REC (I) TO WORK-DATE.	00002030
437	IF WORK-DATE > START-DATE THEN	THEN	00002040
438	SUBTRACT 1 FROM 1		00002050
439	60 10 16		00002050
440	ELSE		00002070
441	IF GRADE OF SRS-HIST-REC (1) > 'ES ' THEN	EC (1) > 'ES ' THEN	00002080
442	GO TO HISTORY-READ		00002090
443	ELSE		00002100
444	IF GRADE OF SRS-HIST-REC (I) < 'E4 ' THEN	EC (1) < 'E4 ' THEN	00002110
445	MCVE '1' TO SKILL		00002120
446	ELSE		00002130

Ooz/1	INPUT LISTING	AUTOFLOW CHART SET - SRS	NON-EAS ATTR.
CARD NO	i	CONTENTS	* * *
447		MOVE '2' TO SKILL.	00002140
448	MOVE AR	MOVE AREA-COUNT (12) TO I.	00002150
449	Ħ.	•	00002160
450	IF 1 •	IF I = 0 THEN GO TO HISTORY-READ,	00002170
451	MOVE MO	MOVE MOS-DATE OF SRS-HIST-REC (1) TO WORK-DATE.	00002180
452	IF WORK	IF WORK-DATE > START-DATE THEN	00002190
453	SUBT	SUBIRACT 1 FROM 1	00002200
454	11 01 09	0 71	00002210
455	ELSE		00002220
456	MOVE	MOVE PRIMARY-MOS OF SRS-HIST-REC (I) TO	00002230
457	N.	WOS-CODE OF SRS-HIST-REC-X.	00002240
458	MOVE AR	MOVE AREA-COUNT (10) TO I.	00002250
459	73.		00002260
460	161	= 0 THEN GO TO HISTORY-READ.	00002270
461	MOVE BE	MOVE BEGIN-DATE OF SRS-HIST-REC (1) TO WORK-DATE.	00002280
462	IF WORK	IF WORK-DATE > START-DATE THEN	00002290
463	SUBT	SUBTRACT 1 FROM I	00002330
464	GO 10 T2	0 12	00002310
465	ELSE		00002320
466	NOW	MOVE PMCC OF SRS-HIST-REC (1) TO HOLD-MCC	00002330
467	11	JF MCC1 THEN MOVE OI TO MCC-CODE	00002340
468	ELSE	W	00002350
469	41	IF MCC2 THEN MOVE 02 TO MCC-CODE	00002360

0,750	INPUT LISTING	AUTOFLOW CHART SET - SRS	NON-EAS ATTR.	
CARD NO		CONTENTS	:	
470		ELSE	00002370	
47.1		IF MCC3 THEN MOVE 03 TO MCC.CODE	00002380	
472		3513	00002390	
473		IF MCC4 THEN MOVE OF TO MCC-CODE	00002400	
474		ELSE	00002410	
475		IF MCCS THEN MOVE OS TO MCC-CODE	00002420	
476		ELSE	00002430	
411		IF MCC6 THEN MOVE OG TO MCC-CODE	00002440	
478		ELSE	00002450	
479		1F MCC7 THEN MOVE 07 TO MCC-CODE	00002460	
780		ELSE	00002470	
461		IF MCCB THEN MOVE OB TO MCC-CODE	00002480	
482		FLSE	00002490	
483		IF MCC9 THEN MOVE 09 TO MCC-CODE	00002500	
484		ELSE	00002510	
485	\	IF MCC10 THEN MOVE 10 TO MCC-CODE	00002520	
486		ELSE	00002530	
487		IF MCC11 THEN MOVE 11 TO MCC-CODE	00002540	
488		ELSE IF NOT MCCBD THEN	00002550	
469		MOVE 12 TO MCC-CODE.	00002560	
490	ğ		00002570	
451		IF AREA-COUNT (10) = I THEN	00002580	
492		MOVE '3' TO FLGG	00002590	

Q'92/11	INPUT LISTING	AUTOFLOW CHART SET - SRS A	NON-EAS ATTR.	
CARD NO	1	CONTENTS	:	
493	MOVE	MOVE PERIOD TO DENOM	00002600	
494	41 01 09		00002510	
495	KLSE		00002620	
496	MOVE I TO J.		00002630	
. 497	ADD 1 TO J.		00002640	
468	MOVE BEGIN	MOVE BEGIN-DATE OF SRS-HIST-REC (J) TO WORK-DATE.	00002650	
499	IF WORK-DA	IF WORK-DATE NOT < START-DATE AND NOT > END-DATE THEN	00002660	
200	IF PMCC 0	IF PMCC OF SRS-HIST-REC (1) =	00002570	
501	PMCC 0	PMCC OF SRS-HIST-REC (J) THEN	00002680	
502	ADD 1 TO	1	00005690	
503	GO 10 T3		00002100	
504	ELSE		00002710	
505	MOVE W	MOVE WORK-DATE TO TR-DATE	00002720	
206	MOVE W	MOVE WORK-DATE TO DATE-2	00002730	
507	COMPUT	COMPUTE DENOM = ((Y2 * 12) + M2) - DIFF	00002740	
808	GO 10 T4		00002750	
509	ELSE WOVE	ELSE MOVE PERIOD TO DENOM	00002730	
510	CVI	MOVE '3' TO FLGG.	00002770	
511	T4.		00002730	
512	MOVE AREA-	MOVE AREA-COUNT (4) TO I.	00002790	
513	77.		00005800	
514	IF I = 0 T	- O THEN GO TO HISTORY-READ.	00002810	
515	MOVE DC-EN	DC-ENLISTMENT OF SRS-HIST-REC (I) TO WORK-DATE.	00002820	

002/11	INPUT LISTING AUTOFLOW CHART SET - SRS	NON-EAS ATTR.
CARD NO	CONTENTS	•
516	IF WORK-DATE > START-DATE THEN	00002830
517	SUBIRACT 1 FROM I	00002840
518	60 10 77	. 00002850
519	ELSE NEXT SENTENCE.	00002860
520	IF I NOT = 1 THEN GO TO HISTORY-READ.	00002870
521	75.	00002880
522	MOVE SEPARATION-DT OF SRS-HIST-REC (1) TO WORK-DATE.	00002890
523	IF WORK-DATE = 000000 THEN GO TO WRITE-REC	00002900
524	ELSE	00002910
525	IF WORK-DATE NOT < START-DATE AND NOT > END-DATE THEN	00002920
526	IF FLGG = '3' THEN GO TO CHK-SDN	00002930
527		00002940
528	MOVE WORK-DATE TO DATE-2	00002950
529	MOVE 1R-DATE TO DATE-1	00002960
530	COMPUTE SEP-DIFF = ((Y2 + 365) + (M2 + 30.42) + D2) -	00002970
531	((Y1 * 365) + (M1 * 30.42) + D1)	00002980
532	IF SEP-DIFF > 30 THEN GO TO WRITE-REC	00002990
533	ELSE GO TO CHK-SON	00003000
534	ELSE GO TO WRITE-REC.	00003010
535	OUT-REC-END.	00003020
536	CHK-SDN.	00000000
537	MOVE SEPARATION-CD OF SRS-HIST-REC (I) TO SDNS.	00003040
538	MOVE SONS TO HOLD-SON.	00000000

CONTENTS CONTENTS F NON-EAS TITR CONTENTS F NON-EAS THEN CONTENTS F NON-EAS THEN CONTENTS F NON-EAS THEN CONTENTS F NON-EAS THEN CONTENTS COMPUTE DENOM = ((Y2 * 12) + M2) - DIFF COMPUTE DENOM = ((Y2 * 12) + M2) - DIFF COMPUTE DENOM = ((Y2 * 12) + M2) - DIFF CONTENTS F IM-REELL THEN CONTENTS F IM-REELL THEN CONTENTS F ON WRITE-REC CONTENTS COMPUTE DENOM = ((Y2 * 12) + M2) - DIFF CONTENTS COMPUTE DENOM = ((Y2 * 12) + M2) - DIFF CONTENTS COMPUTE DENOM = ((Y2 * 12) + M2) - DIFF CONTENTS COMPUTE DENOM = ((Y2 * 12) + M2) - DIFF CONTENTS COMPUTE DENOM = ((Y2 * 12) + M2) - DIFF CONTENTS CONT

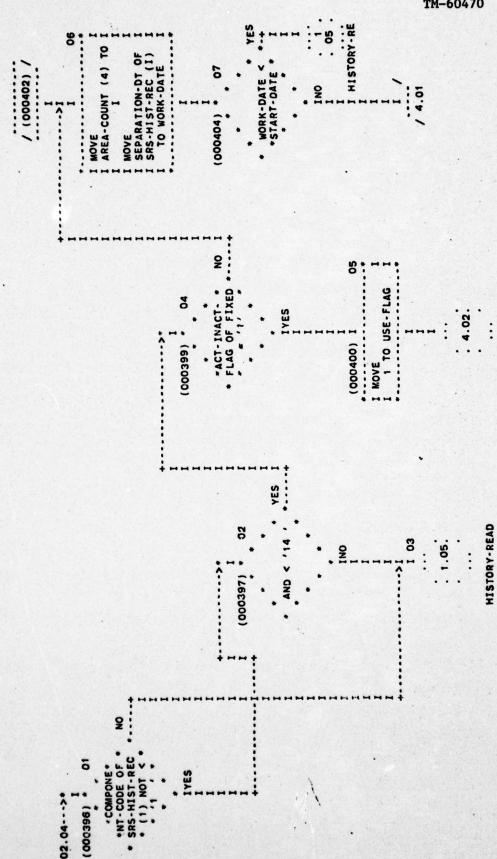
1.4 Flow Chart. The following chart is a AUTOFLOW charting of the SRSNEAS logic.

DIVISION
0
PROCEDURE
TITLE
CHART

PROGRAM-1D	(000371) 1 03 1	1	
	I MOVE 1 1	HISTORY-READ PARAGRAPH	
SRSATTRX	I CT 100157	•	•••••••••••••••••••••••••••••••••••••••
•	T WOVE I I	I 60 I (6/2000)	I (000381) * 07
•	1 770533 TO 1		•
•	I END. DATE I I		•
	I MOVE. 1 I	I4 I PERFORM I 5I I	I YES *
	I START-DATE TO I I	I SRS-READ I	++ USE-FLAG .
/ (000369) /		I THROUGH I	A ZERO
	I COMPUTE I I	13 I SRS-READ- 1 4I I	
	I DIFF = ((Y1 + 12) 1 I	I I END I I I	
	-	I ************************************	
-	1 ,	1	I .
START-UP PARAGRAPH			٠ نر
•		(C00380) I 06 I	
	(000375) 1 04 1	I *	
(000370) I 02 I	I	1	
	I MOVE I I	I2 I PERFORM I 41 I	-
	I END-DATE TO I I	I LOGIC-CHECK I	I (000382) 1 08
I PERFORM I 61	I DATE-2 I I	I THROUGH I	
1 COEM- 1 1 1	I COMPUTE I I	I1 I LOGIC- I 21 I	-
T BOUTINE I OI I		I I CHECK-END I I I	I IE I PERFORM I BI
1 41 1		I	I OUT-REC I
		-	I TO I THROUGH I OI
-	1	-	I 'US I OUT-REC-END I 1
		*******	I ************************************
************	************		 }
			ţ

	(000393) I 03	I MOVE I	I DO-ENLISTMENT OF I	I SRS-HIST-REC (1) I	I TO WORK-DATE I	***************************************	•		-	(000394) • 04			• YES	. WORK-DATE >+	*START-DATE * I	•		•	INO I	. 50		I HISTORY-RE	••		/ 3.01
	(000387) I NOTE 02 I	I * * * * * * * * * * * * * * I	. IS TO CONTAIN . I	+ LOGIC TESTS FOR * I	* SELECTING OR * I	* REJECTING EACH * I	* RECORD. A * I	* REJECTED RECORD * I	* SHOULD RETURN * I		* USE-FLAG. THE * I	* BLANK CARD * I	I * SHOULD BE * I		* THE SELECTION * I	* CRITERION. SUCH . I	* AS: COHORT-DATE * I		1	1	-	+			
/ (000385) /	01.06>	LOGIC-CHECK PARAGRAPH I	•	I 10 I I		I I I	T TERO TO USE-FLAG I				***************************************										•				

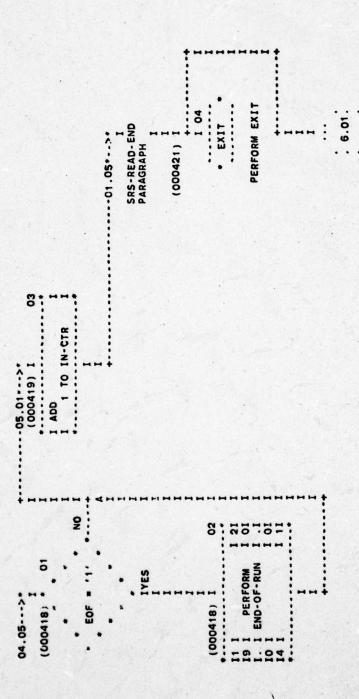
11/20/



NON-EAS ATTR.

		/ (000410) /	
1.07>*			000412) [04
00406) I 01		I SRS-READ PARAGRAPH I	
OVE I		•	I I CALL H
2000		I (000411) I 03 I	I I READER USING H
			I I FIXED SCORES H
-	, C	I I SPACES TO I I	6
		I SRS-HIST-REC I I	I I ENLISTMENT (1) H
	LOGIC-CHECK-END	I ************* I	I I EXTENSION (1) H
	PARAGRAPH		I I GRADES (1) H
	-		I I UA-SHORT (1 H
		**************************************	I I UA-LONG (1) H
	(000407) 1		Ξ
	+		-
	I 02 I		I TURBULENCE (1) H
	I	_	
	* EXIT * I		I I (1) SPARE14 M
			1 1 SPANETS EUF H
	PERFORM EXIT I	, -	H '
1			
\			, <u>i</u>
	•	- •	7.0.01
	SRS-READ		

OPEN-ROUTINE

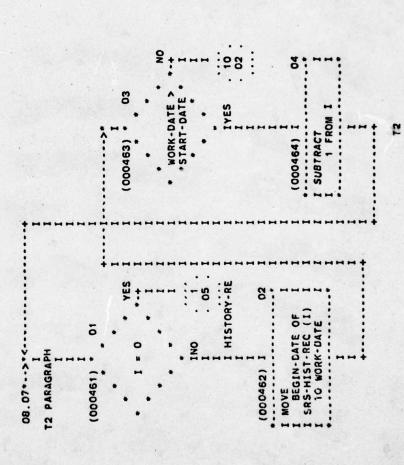


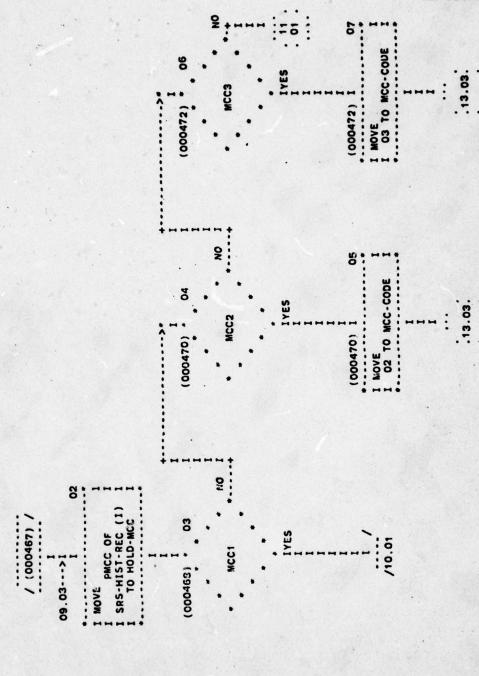
OUT-REC

/ (000430) /	*<01.08*>*	OUT-REC PARAGRAPH	•	(000431) I 05	I MOVE I	I ZEROS TO I	I MOVE I	I '0' TO FLGG I	I MOVE I MID OF FIXED TO I	I MID OF FIXED-X I	I MOVE	I AREA-COUNT (06) I		-	_		, , ,	/ 7.01		
							I (000425) I 03		I I NOVE I I ZERO TO IN-CTR I	I I MOVE I	I ZERO TO OUT-CTR I	***************************************	1 01 02	I (000427) I	+	I 04 I			PERFORM EXIT	+
/ (000423) /	01.02*>*	OPEN-ROUTINE	PARAGRAPH		(000424) 1	,	/OPEN OUTPUT/	/ FILE-OUT /	, , ,	•		(000425) I 02	,	,	/OPEN OUTPUT/	/ SRS-OUT /	,			

						TM-60470
			(000445) * 06	* GRADE OF * NO * SRS-HIST-REC *-+ *(I) < 'E4 '* I	1 1 1 1 1 1 1 1 1 1	8 . 02
/ (000442) /		* GRADE OF * YES * SRS-HIST-REC *-+ *(I) > 'ES'* I	I NO I I I I I I I I I I I I I I I I I I	I HISTORY-RE I I I I		
	+ нин-	* -	I (000438) * 03 II II * NORK-DATE > ***********************************	START-DATE * I * * I TYES	(000439) I 04 1 SUBTRACT I I SUBTRACT I I I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	÷ 42
	06.05>*<	(000436) * 01	* * * * * * * * * * * * * * * * * * *	INO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(000437) 02 1 1 1 1 1 1 1 1 1	

#AGRAPH 1 03



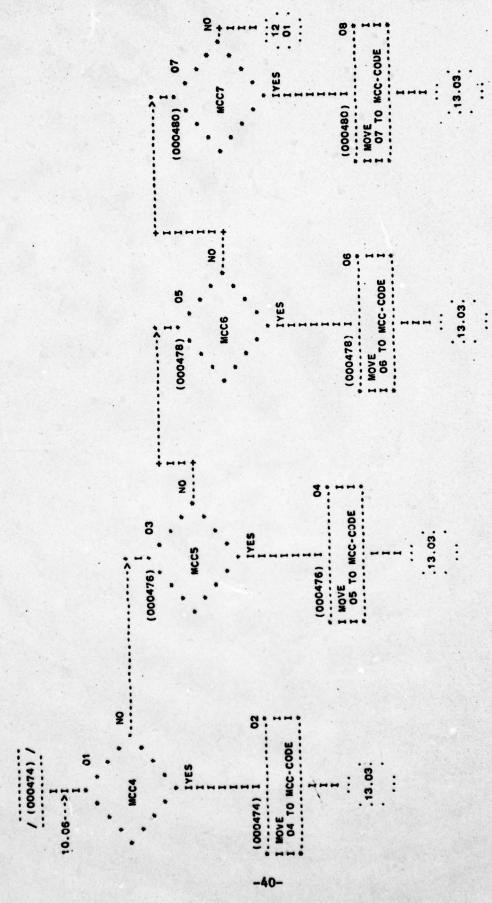


I MOVE
I OI TO MCC-CODE

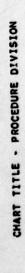
10.63-->*

.13.03.

AUTOFLOW CHART SET - SRS



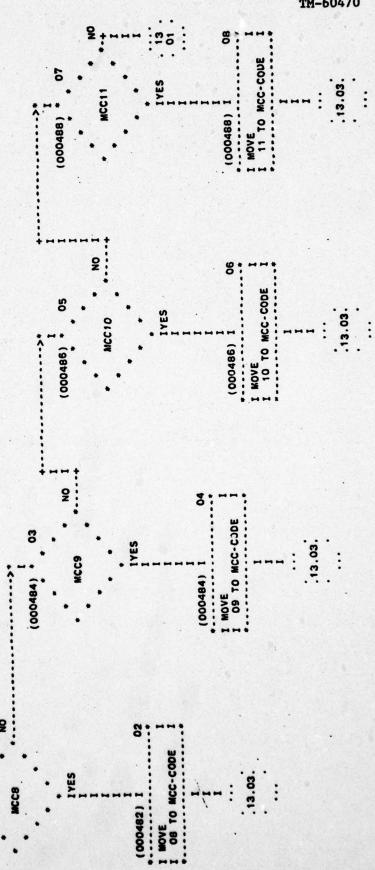
02/11



11/20/

/ (000482) /

11.07--->1



14

11/50/

12.07--->

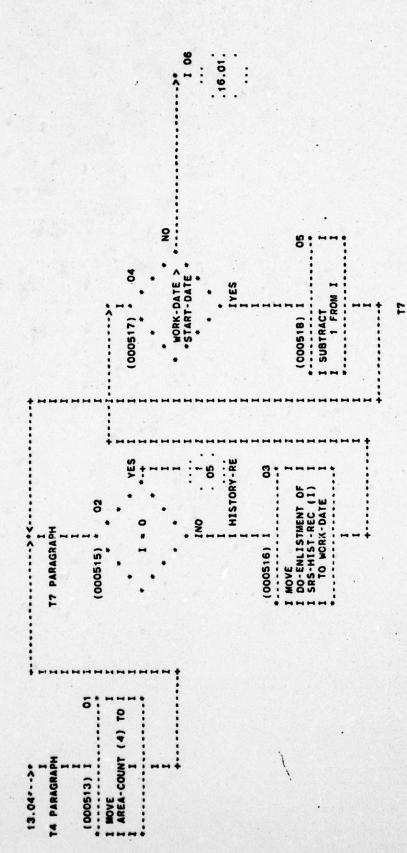
-42-

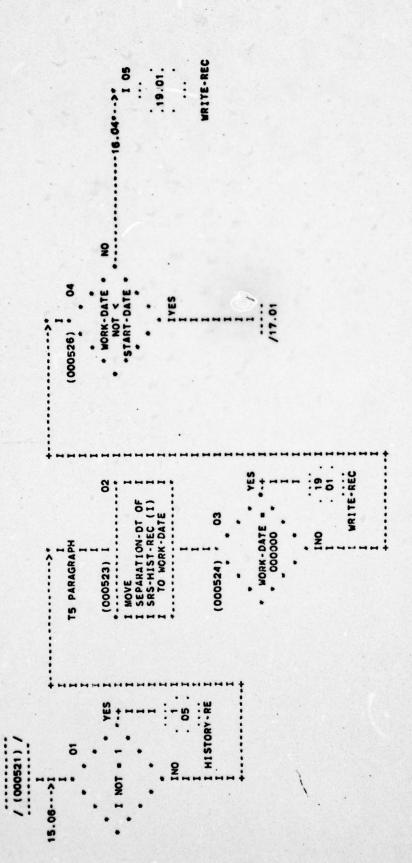
/ (000210) /

NON-EAS ATTR.

1/20/1

13.07>		13.06*>1
(000501) I NOTE 02		1 08
		I MOVE
* SRS-HIST-REC (1) *		I PERIOD TO DENOM I
* SAS-HIST-REC (J) *		1 '3' TO FLGG I
		• • • • • • • • • • • • • • • • • • •
		H
. .		`
so (Locado)		
		5.65
•	***************************************	
* ABOVE *	(000506) 1 04	
	I MOVE	
	I WORK-DATE TO I	
IYES	I MOVE INCOME	
,	I WORK-DATE TO I	
1 10 11 I	I COMPUTE I	
	I DENOM = ((Y2 * I	
	* (YE + (Y)	
	-	
	-	
	.15.01	
.13.03.		
	2	





NON-EAS ATTR.

CHART TITLE - PROCEDURE DIVISION

	1 (90000)	. 03	
٠	(000527) · 02 I		
	JW I	-	
		WORK-DATE TO I	
	· · YES I I DA	DATE-2 I	
	* FLGG = '3' *-+ I I MOVE		
	1 1 ·	TR-DATE TO DATE-1 I	
	. I I COMPUTE		
	· · I I SEP-DIF	SEP-DIFF = ((Y2 * I	
	• I 1 365)	365) + (M2 * I	
	-	+ D2) - 1	
	1 . 02 . 1 . ((Y1	((Y1 * 365) + I	
		30.42) + 1	
	I CHK-SDN I I	D1) I +	
		I (000533) * 04	

			VES.

-46-

TM-60470

1 05 18.02.

END OF RUN

HISTORY-READ

/ (000263) /

NON-EAS ATTR.

I CALL CLOSER * HALT * (000569) I 09 /CLOSE /CLOSE (000566) I (000267) (000268) 9 9 END-OF-RUN PARAGRAPH /DISPLAY / NUMBER OF / RECORDS IN / /FILE = ' IN-CTR/ /DISPLAY
/ NUMBER OF
/ RECORDS
/ EXTRACTED = ',
OUT-CTR / (000564) I 05.02--->* (000565) I /WRITE /SRS-HIST-REC-X . 1.05. (000559) HI STORY - RE WRITE-REC PARAGRAPH I ADD TO OUT-CTR USE-FLAG 16.03*--> (000558) (000557)

-48-

/ (695000) / * EXIT * PERFORM EXIT

2. SORT

Step two of the system sorts the file output by program SRSNEAS on MCC CODE, MOS (or OCC FIELD) and SKILL. The output from this sort is used as input to the SPSS AGGREGATE program (step 3).

3. PROGRAM AGGREGATE

Step three of the system aggregates the numerator and denominator values computed by program SRSNEAS. These are aggregated by MCC CODE, MOS (or OCC FIELD) and SKILL. This program outputs a numerator and denominator value for each unique MCC CODE, MOS (or OCC FIELD), SKILL combination. These records are input to step 4.

4. MARK-IV LIST PROGRAM

Step four is a MARK-IV program which takes the unique records output by step three and computes a non-EAS attrition rate (numerator/denominator) for each MCC CODE, MOS (or OCC FIELD) and SKILL combination. It then lists the results.

System Output

A sample of the results output by the system can be seen in Appendix

A. These are average monthly non-EAS attrition rates for Fiscal Year 1978.

Reading from left to right the meanings of each column are as follows:

- a. MCC. This is the MCC-CODE which represents a PMCC grouping as shown in Appendix B.
- b. <u>PMOS</u>. This is the Primary Military Occupational Speciality. If the run was on OCC FIELD (instead of MOS) this column would be headed OCC FIELD.
- c. <u>SKILL</u>. A value of 1 represents grades E1 thru E3; a value of 2 represents grades E4 and E5.
- d. NON-EAS ATTR. This is the average monthly non-EAS attrition rate for the MCC, PMOS (or OCC FIELD), SKILL combination shown on this line. This is given as a percent.
- e. N. This is the number of records (or marines) which entered the non-EAS attrition rate calculation.

Job Control Language for Execution of System

Following is a complete list of JCL and control cards required to run the system. This list represents the cards required to obtain the non-EAS attrition rates for FY 78 by MCC CODE, MOS and SKILL.

```
JOB (601R, MPI2), DAMALIO, TIME=(60)
                                                                           00000010
//15703NE2
// LIB DD DSN=HQMC1.MPI.LOADLIB.DISP=SHR
                                                                           00000020
//STEPONE
            EXEC PGM=IEHPROGM, REGION=80K
                                                                           00000030
//SYSPRINT DD SYSDUT=A
                                                                           00000040
//SYSOUT DD SYSOUT=A
                                                                           00000050
//SYSIN DD *
                                                                           00000060
 UNCATLG
          DSNAME=HOMC1.MPI2.C1080.NEAS
                                                                           00000070
 UNCATLG
          DSNAME=HQMC1.MPI2.C1080.AGG.NEAS
                                                                           080000080
                                                                           00000090
/#
    EXEC LCOBUCLG, OFF=MPI1, SECT=RETRV,
                                                                           00000100
"
    PARM.COB=(LIB, NODECK, LOAD, NODMAP, NOPMAP, SUPMAP, NOXREF, STATE, SXREF,
                                                                           00000110
"
                *SIZE=114K*, *BUF=16K*),
                                                                           00000120
"
                                                                           00000130
"
       REGION-LKED=90K,
       REGION.GO=150K
                                                                           00000140
"
//LIB-SYSIN DD
                                                                           00000150
-OPT
    NOLIST
                                                                           00000160
-SEL
      SRSNEAS, DRXH, EXEC, TEMP
                                                                           00000170
-REP 1350, 1360
                                                                           00000180
            MOVE 771001 TO START-DATE.
                                                                           00000190
            MOVE 780930 TO END-DATE.
                                                                           00000200
-END
                                                                           00000210
1*
                                                                           00000220
//COB.SYSIN DO . DSN=&&LIBTEMP
                                                                           00000230
                                                                           00000240
/*
//LKED-SYSLIB
              DD
                                                                           00000250
       DO
                                                                           00000260
"
11
       DD DSN=HQMC1.AP12.MMSLIB.DISP=SHR
                                                                           00000270
                                                                           00000280
/#
//GO-SYSPRINT
               DD SYSOUT=A.DCB=(RECFM=UA.BLKSIZE=133)
                                                                           00000290
              DD SYSOUT=A, DCB=(RECFM=UA, BLKSIZE=133)
//GD.SYSOUT
                                                                           00000300
//GO-SYSUDUMP
               DD SYSOUT=A
                                                                           00000310
                                                                           00000320
//GO.SYSDBOUT DD SYSOUT=A
//GD_INPUT DD DISP=OLD.DSN=HQMC1.MPI2.C1080.SRS-MAST
                                                                           00000330
//GO_EXTRFILE DD DISP=(NEW.CATLG).UNIT=2400-3.
                                                                           00000340
       DSN=HQMC1.MP12.C1080.NEAS.
                                                                           00000350
11
                                                                           00000360
       DCB=(RECFM=FB, LRECL=027, BLKSIZE=0270)
11
/#
                                                                           00000370
//STEP1 EXEC PGM=IERRCOOD, REGION=200K
                                                                           00000380
//SORTLIB DD DSN=SYS1-SORTLIB.DISP=SHR
                                                                           00000390
//SYSUDUMP DD SYSOUT=A
                                                                           00000400
//SYSOUT DO SYSOUT=A
                                                                           00000410
//SORTIN DD DSN=HQMC1-MPIZ-C1080-NEAS,DISP=OLD
                                                                           00000420
                                                                           00000430
//SORTHKO1 DD UNIT=SYSDA, SPACE=(TRK, (400))
//SORTHKO2 DD UNIT=(SYSDA, SEP=SORTHKO1), AFF=SORTHKO1,
                                                                           00000440
    SPACE=(TRK, (400))
                                                                           00000450
//SORTWK03 DD UNIT=(SYSDA, SEP=(SORTWKO1, SORTWK02)), AFF=SORTWK01,
                                                                           00000460
   SPACE=(TRK, (400))
                                                                           00000470
          DD DSN=&NEAS,DISP=1,PASS),
                                                                           00000480
       UNIT=3330, SPACE=(TRK, (300, 10)),
                                                                           00000490
"
                                                                           00000500
       DCB=(RECFM=FB, LRECL=27, BLKSIZE=2700)
"
                                                                           00000510
1/SYSIN DD
    RT FIELDS=(12,2,CH,A,14,4,CH,A,11,1,CH,A),SIZE=E200000
                                                                           00000520
                                                                           00000530
                                                                           00000540
         EXEC
               PGM=SPSS, REGION=200K, PARM=40K
//STP3
                                                                           00000550
            DD UNIT=SYSDA, SPACE=(800,(1000,100))
//FT01F001
                                                                           00000560
            DD DUMMY
//FT10F001
                                                                           00000570
//FT02F001 DD UNIT=3330.DCB=(BLKSIZE=13030).SPACE=(CYL.(100.10))
```

```
//FT08F001
            DD DSN=&NEAS, UNIT=SYSDA, DISP=(OLD, DELETE)
                                                                             00000580
    19F001
                 DSN=HQMC1.MPI2.C1080.AGG.NEAS,DISP=(NEW,CATLG),
                                                                             00000590
      DCB=(RECFM=FB, LRECL=80, BLKSIZE=800), UNIT=2400
                                                                             00000600
//FT15F001
            DD
                 SYSOUT=A,DCB=BLKSIZE=80
                                                                             00000610
//FT06F001
            DD
                 SYSOUT=A
                                                                             00000620
//FT05F001
            DD
                                                                             00000630
                AGGREGATE NUM AND DENOM
                                                                             00000640
RUN NAME
                                                                             00000650
VARIABLE LIST
                SKILL.MCC.MOS, NUM, DENOM
                                                                             00000660
INPUT MEDIUM
                DISK
                UNKNOWN
                                                                             00000670
N OF CASES
INPUT FORMAT
                                                                             00000680
                FIXED (10X,F1-0,F2-0,F4-0,F2-0,F2-0,6X)
AGGREGATE
                GROUPVARS=MCC.MOS.SKILL/VARIABLES=NUM.DENOM/
                                                                             00000690
                AGGSTATS=VALIDN, SUM
                                                                             00000700
                                                                             00000710
OPTIONS
                                                                             00000720
STATISTICS
                3
                                                                             00000730
READ INPUT DATA
FINISH
                                                                             00000740
           EXEC MARKIV, DEPT=MPI
                                                                             00000750
//EX
//EXT.M4OLD DD DSN=HQMC1.MPI2.Cl080.AGG.NEAS.DISP=DLD
                                                                             00000760
//EXT.M4INPUT
               DD *
                                                                             00000770
                                                                             00000780
FYTTATTRRCNON-EAS S U
                                                                             00000790
FY77ATTRER
             1FY78 NON-EAS ATTRITION RATES
                                                                             00000800
FY77ATTRT1
                         / ODENDM
FY77ATTRPR
                ONUM
                                                              TATTRT
                                                                             00000810
                                                              TATTR
                                                                             00000820
             2
                TATTRI
                          * D100
FY77ATTRPR
                                                                             00000830
                         R OMCC
                                                              TMCCS
FY77ATTRPR
            3
                                                                             00000840
             4
                         R OMOS
                                                              TMOSS
FY77ATTRPR
                                                                             00000850
            5
                                                              TSKILLS
FY77ATTRPR
                         R OSKILL
                                                                             00000860
FY77ATTRPR
                         R ON
                                                              TNS
            7
                         R THCCS
                                                              TMCCT
                                                                             00000870
FY77ATTRPR
                                                              TMOST
                                                                             00000880
                         R THOSS
FY77ATTRPR
             8
                                                                             00000890
                         R TSKILLS
                                                              TSKILLT
             9
FY77ATTRPR
                                                                             00000900
FY77ATTRPR 10
                         R TNS
                                                              TNT
                                                                             00000910
FY77ATTRR1
                TMCCT
                              1
                              2
                                                                             00000920
FY77ATTRR1
                TMOST
FY77ATTRR1
                TSKILLT
                              3
                                                                             00000930
FY77ATTRR1
                TATTR
                                                                             00000940
                INI
                                                                             00000950
FY77ATTRR1
                                                                             00000960
FY77AJTRE1
                                                                             00000970
FY77ATTRTFMCCT
                   002C
                                               MCC
                                                                             00000980
FY77ATTRTFMCCS
                   003P
                                                                             00000990
                   005P
FY77ATTRTFMOSS
                                                                             00001000
                                               PMOS
FY77ATTRTFMOST
                   004C
                                                                             . 00001010
FY77ATTRTFSKILLS
                   001P
                                               SKILL
                                                                             00001020
FY77ATTRTFSKILLT
                   001C
                                                                              00001030
FY77ATTRTFNT
                   005C
                                                                             00001040
FY77ATTRTFNS
                   004P
FY77ATTRTFATTRT
                                                                             00001050
                   005P5
                                                                              00001060
                                               NON-EAS ATTR.
FY77ATTRTFATTR
                   005P2
                                                                              00001070
11
```

Note 1. The DSNAMES on lines 70 and 80 must be the same as those on lines 350 and 590 respectively.

Note 2. The date in the COBOL statement on line 190 is the beginning date for the period of interest. This can be any date. In this example, it is the beginning of FY 78 (771001). If one wanted rates for FY 77 then line 190 would be changed to:

MOVE 761001 to START-DATE.

Note 3. The date in the COBOL statement on line 200 is the end date for the period of interest. This can be any date. In this example, it is the end of FY 78 (780930). If one wanted rates for FY 77 then line 200 would be changed to:

MOVE 770930 to END-DATE.

Note 4. The DSNAME on line 330 is the current SRS history file.

The following list represents the JCL and control cards required to obtain the non-EAS attrition rates for FY 78 by MCC-CODE, OCC FIELD and SKILL.

The notes on the previous page also apply to the following card listing.

```
(601R, MP12), "DAMALIO", TIME=(60)
//15703NE2
            JOB
                                                                           00000010
    BLIB
          DD DSN=HQMC1-MPI-LOADLIB, DISP=SHR
                                                                           00000020
   EPONE
            EXEC PGM=IEHPROGM.REGION=80K
                                                                           00000030
//SYSPRINT DD SYSOUT=A
                                                                           00000040
//SYSOUT DD SYSOUT=A
                                                                           00000050
//SYSIN DD *
                                                                           00000060
 UNCATLG DSNAME=HQMC1.MP12.C1080.NEAS
                                                                           00000070
 UNCATLG
          DSNAME=HQMC1.MPI2.C1080-AGG.NEAS
                                                                           00000080
/*
                                                                           00000090
11
    EXEC LCOBUCLG, OFF=MPI1, SECT=RETRV,
                                                                           00000100
11
    PARM.COB=(LIB, NODECK, LOAD, NODMAP, NOPMAP, SUPMAP, NOXREF, STATE, SXREF,
                                                                           00000110
11
               *SIZE=114K*, *BUF=16K*),
                                                                           00000120
11
       REGION-LKED=90K.
                                                                           00000130
11
       REGION.GO=150K
                                                                           00000140
//LIB.SYSIN DD
                                                                           00000150
                                                                           00000160
-OPT
      NOLIST
-SEL
      SRSNEAS, DRXH, EXEC, TEMP
                                                                           00000170
-REP 1350,1360
                                                                           00000180
            MOVE 771001 TO START-DATE.
                                                                           00000190
            MOVE 780930 TO END-DATE.
                                                                           00000200
-END
                                                                           00000210
/#
                                                                           00000220
//COB-SYSIN DD DSN=&&LIBTEMP
                                                                           00000230
/*
                                                                           00000240
//LKED.SYSLIB DD
                                                                           00000250
"
       DD
                                                                           00000260
       DD DSN=HQMC1-AP12-MMSLIB.DISP=SHR
11
                                                                           00000270
/#
                                                                           00000280
//GO-SYSPRINT
               DD
                   SYSOUT=A.DCB=(RECFM=UA.BLKSIZE=133)
                                                                           00000290
//GO-SYSOUT
              DD SYSOUT=A, DCB=(RECFM=UA, BLKSIZE=133)
                                                                           00000300
               DD
//GO-SYSUDUMP
                   SYSOUT=A
                                                                           00000310
//GO-SYSDBOUT
               DD
                   SYSOUT=A
                                                                           00000320
//GO.INPUT DD
                DISP=OLD, DSN=HQMC1.MPI2.C1080.SRS-MAST
                                                                           00000330
//GO.EXTRFILE DD DISP=(NEW,CATLG),UNIT=2400-3,
                                                                           00000340
11
       DSN=HQMC1.MPI2.C1080.NEAS.
                                                                           00000350
11
       DCB=(RECFM=FB, LRECL=027, BLKSIZE=0270)
                                                                           00000360
/#
                                                                           00000370
//STEP1 EXEC PGM=IERRCOOO, REGION=200K
                                                                           00000380
//SORTLIB DD DSN=SYS1.SORTLIB,DISP=SHR
                                                                           00000390
//SYSUDUMP DD SYSOUT=A
                                                                           00000400
//SYSOUT DD SYSOUT=A
                                                                           00000410
//SORTIN DD DSN=HQMC1.MPI2.C1080.NEAS.DISP=QLD
                                                                           00000420
//SORTHKO1 DD UNIT=SYSDA, SPACE=(TRK, (400))
                                                                           00000430
//SORTWKO2 DD UNIT=(SYSDA, SEP=SORTWKO1), AFF=SORTWKO1,
                                                                           00000440
    SPACE=(TRK, (400))
                                                                           00000450
//SORTHK03 DD UNIT=(SYSDA,SEP=(SORTHKO1,SORTHKO2)),AFF=SORTHKO1,
                                                                           00000460
    SPACE=(TRK, (400))
                                                                           00000470
//SORTOUT DD DSN=ENEAS, DISP=(.PASS).
                                                                           00000480
       UNIT=3330, SPACE=(TRK, (300, 10)),
                                                                           00000490
11
       DCB=(RECFM=FB, LRECL=27, BLKSIZE=2700)
                                                                           00000500
//SYSIN DD *
                                                                           00000510
  $PQT FIELDS=(12,2,CH,A,14,2,CH,A,11,1,CH,A),SIZE=E200000
                                                                           00000520
                                                                           00000530
//STP3
         EXEC
               PGM=SPSS, REGION=200K, PARM=40K
                                                                           00000540
//FT01F001
            DD
                UNIT=SYSDA, SPACE=(800,(1000,100))
                                                                           00000550
            DD
                DUMMY
                                                                           00000560
//FT10F001
                                                                           00000570
//FT02F001 DD UNIT=3330.DCB=(BLKSIZE=13030).SPACE=(CYL.(100.10))
```

```
//FI08F001
            DD DSN=&NEAS,UNIT=SYSDA,DISP=(OLD,DELETE)
                                                                             00000580
    19F001
                 DSN=HQMC1.MPI2.C1080.AGG.NEAS, DISP=(NEW, CATLG),
                                                                             00000590
            nn
      DCB=(RECFM=FB, LRECL=80, BLKSIZE=800), UNIT=2400
                                                                             00000600
                                                                             00000610
//FT15F001
            DD
                 SYSOUT=A.DCB=BLKSIZE=80
                                                                             00000620
//FT06F001
            DD
                 SYSOUT=A
                                                                             00000630
//FT05F001
            DD
                                                                             00000640
                AGGREGATE NUM AND DENOM
RUN NAME
                SKILL - MCC - MDS - NUM - DENOM
                                                                             00000650
VARIABLE LIST
INPUT MEDIUM
                                                                             00000660
                DISK
                                                                             00000670
                UNKNOWN
N OF CASES
                                                                             00000680
INPUT FORMAT
                FIXED (10X,F1-0,F2-0,F2-0,2X,2(F2-0),6X)
                                                                             00000690
AGGREGATE
                GROUPVARS=MCC.MOS.SKILL/VARIABLES=NUM.DENOM/
                                                                             00000700
                AGGSTATS=VALIDN, SUM
                                                                             00000710
OPTIONS
                                                                             00000720
STATISTICS
                3
                                                                             00000730
READ INPUT DATA
                                                                             00000740
FINISH
           EXEC MARKIV, DEPT=MPI
                                                                             00000750
11EX
//EXT.M4OLD DD DSN=HQMC1.MPI2.C1080.AGG.NEAS.DISP=OLD
                                                                             00000760
                                                                             00000770
//EXT.M4INPUT
                DD *
                                                                             00000780
FY77ATTRRCNON-EAS S U
                                                                             00000790
FY77ATTRER
             1FY78 NON-EAS ATTRITION RATES
                                                                             00000800
FY77ATTRT1
                                                                             00000810
                                                              TATTRT
FY77ATTRPR
                MUNO
                          / ODENOM
                                                                             00000820
            2
                TATTRE
                          # D100
                                                              TATTR
FY77ATTRPR
                                                                             00000830
             3
                          R OMCC
                                                              TMCCS
FY77ATTRPR
                                                              TMOSS
                                                                             00000840
FY77ATTRPR.
                          R OMDS
                                                              TSKILLS
                                                                             00000850
FY77ATTRPR
                          R OSKILL
                                                              TNS
                                                                             00000860
FY77ATTRPR
            6
                          R ON
                          R TMCCS
                                                              TMCCT
                                                                             00000870
FY77ATTRPR
             7
                                                              TROST
                                                                             00000880
FY77ATTRPR
             8
                          R TMOSS
FY77ATTRPR
            9
                          R TSKILLS
                                                              TSKILLT
                                                                             00000890
FY77ATTRPR 10
                          R TNS
                                                              INI
                                                                             00000900
FY77ATTRRL
                TMCCT
                              1
                                                                             00000910
FY77ATTRR1
                TMOST
                              2
                                                                             00000920
                                                                             00000930
FY77ATTRR1
                TSKILLT
                              3
                                                                             00000940
FY77ATTRR1
                TATTR
                                                                             00000950
FY77ATTRR1
                                                                             00000960
FY77ATTRE1
                                               MCC
                   002C
                                                                             00000970
FY77ATTRTFMCCT
                                                                             00000980
FY77ATTRTFMCCS
                   003P
                                                                             00000990
                   005P
FY77ATTRTFMDSS
                                               OCC FIELD
                                                                             00001000
                   002C
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Appendix A

FY 78 AVERAGE MONTHLY NON-EAS ATTRITION RATES BY MCC-CODE, MOS, SKILL

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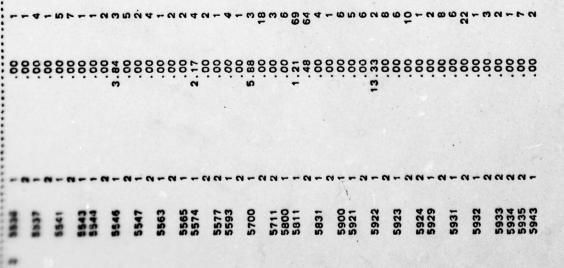
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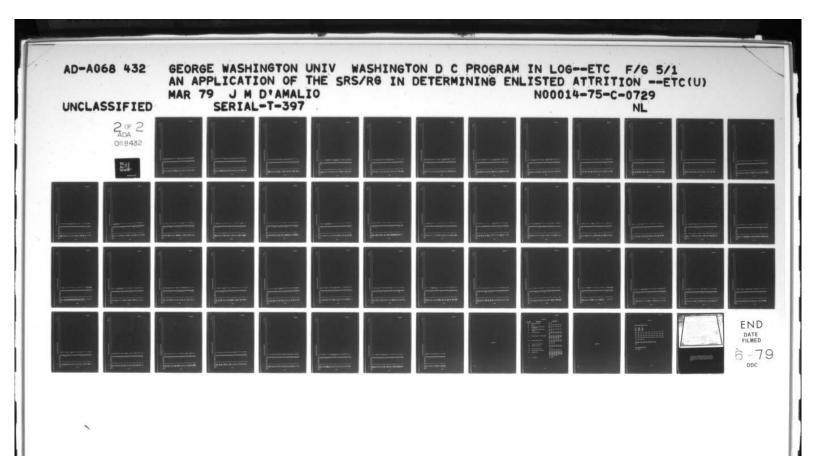
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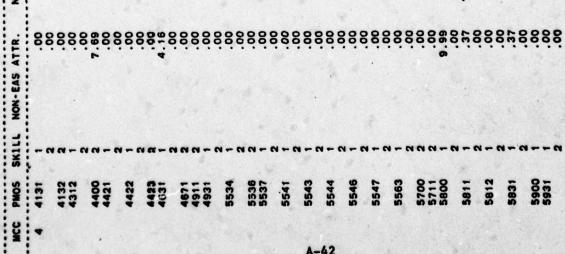
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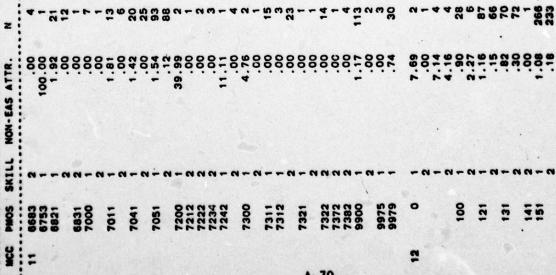
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S	~																		

A-81

Appendix B

Appendix B

)	MCC CODE	DESCRIPTION	ACTUAL MCCS							
	00	USMC Recruit Depots	016, 017							
	01	Hawaii	130, 436, 442, 1CD, 091, 1C1							
	02	West Coast Fleet Marine Force (FMF) Units	121, 143, 144, 164, 169, 1D0 1D4							
	03	East Coast Fleet Marine Force Units	122, 142, 151, 160, 165, 1D1, 1D3, 1DK							
	04	Far East FMF Units	124, 092, 045, 044, 145, 146, 197, 1C2, 1C3, 1D2, 1D5, 1E7 1E8							
	05	Marine Barracks in United States	210, 213, 215, 217, 218, 224, 226, 229, 230, 233, 234, 237, 240, 251, 254, 256, 262, 263, 268, 271, 272, 274, 275							
	06	Overseas Marine Barracks	353, 355, 362, 365, 311, 313, 314, 315, 316, 317, 320, 323, 326, 327, 328							
	07	Overseas Marine Barracks	351, 312, 333							
	08	Marines on Sea Duty	412, 413, 414, 431, 434, 436, 438, 439, 442, 444, 446, 451	,						
	09	Force Troops, FMF PAC	150, 1DJ							
	10	Security Guard Detachments	RDO, RO2, RO6, RO8, R10, R14							
	11	Non-FMF Units	009, 010, 011, 012, 013, 014, 019, 022, 023, 024, 025, 026, 027, 028, 029, 030, 036, 038, 040, 041, 047, 048, 049, 052, 057, 058, 059, 063							
	12	All Others	ALL OTHER							

Appendix C

Appendix C

NON-EAS SEPARATION CODES

GKA THRU HNC JKA THRU JNC H20 THRU H67 820 THRU 899

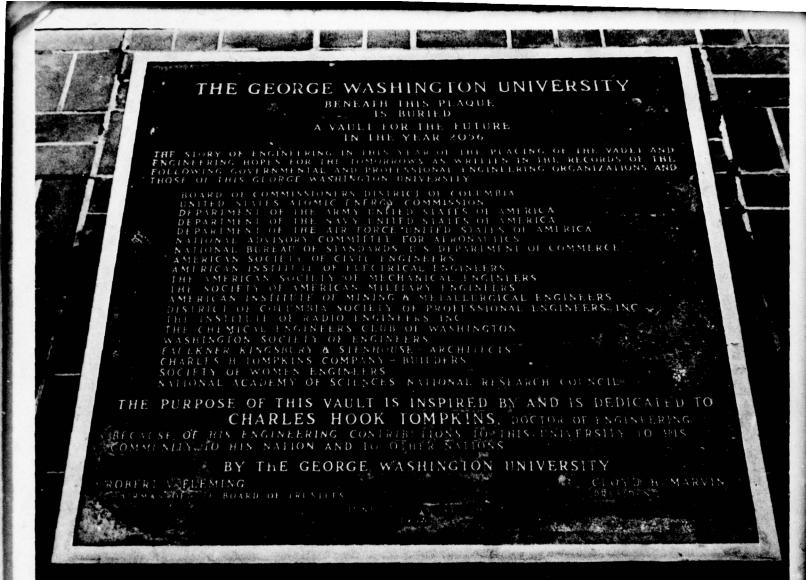
GFN, JCM, JDF, JDJ, JDK, JFB, JFC, JFF, JFG, JFK, JFL, JFM, JFN, JFP, JFR, JFT, JFV, JHF, JJB, JJC, JJD, JMF, JNF, JPB, KCM, KCQ, KDB, KDC, KDF, KDG, KDH, KFF, KFS, KFV, KNL, LFG, MCK, MDB, MDH, MND, RFJ, RFK, SFJ, SFK, VFJ, VFK, WFK, YND

IMMEDIATE REENLISTMENT SEPARATION CODES

KHC

EAS SEPARATION CODES

ALL OTHERS



To cope with the expanding technology, our society must be assured of a continuing supply of rigorously trained and educated engineers. The School of Engineering and Applied Science is completely committed to this objective.